

A NEW SPECIES OF *CURTARA* (HOMOPTERA: CICADELLIDAE) FROM BERMUDA^{1,2}

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ABSTRACT: A new species of gyponine leafhopper, *Curtara bermudensis*, is described from Bermuda and compared with closely related species. This is the first gyponine known from these islands.

A new species of *Curtara* from Bermuda was sent to me for identification, and is described at this time and compared with the closely related species. I wish to thank M. R. Wilson, CAB International Institute of Entomology, London, for making this series available. This species belongs in the subgenus *Curtara*.

The Genus *Curtara* was described by DeLong and Freytag (1972), with 76 species included (1976). DeLong and others (DeLong 1977, 1979, 1980, 1983; DeLong and Foster 1982; DeLong and Triplehorn 1978, 1979; and DeLong and Wolda 1978, 1982, 1984) have added an additional 67 species. This new species makes a total of 144 species known for this genus.

Curtara bermudensis n. sp.

(Figures 1-5)

Length of males 6.4-6.8 mm., females 7.8-8.6 mm. Crown broadly rounded, twice as wide between eyes at base as median length, margin foliaceous.

Color: Males brown with many dark brown spots on head and pronotum. Wings dark brown spotted with lighter brown. Females yellow brown with few spots of darker brown on head, pronotum and forewings.

Male genitalia: Pygofer bluntly pointed at apex. Plate four times as long as wide, truncate at apex. Style broad at base, narrowed to hatchet-shaped apex, ventral margin finely serrate. Aedeagus with shaft long, tubular, with pair of processes extending along shaft about half length of shaft, then curving dorsad; paraphysis broadened near middle, with dorsally hooked apex.

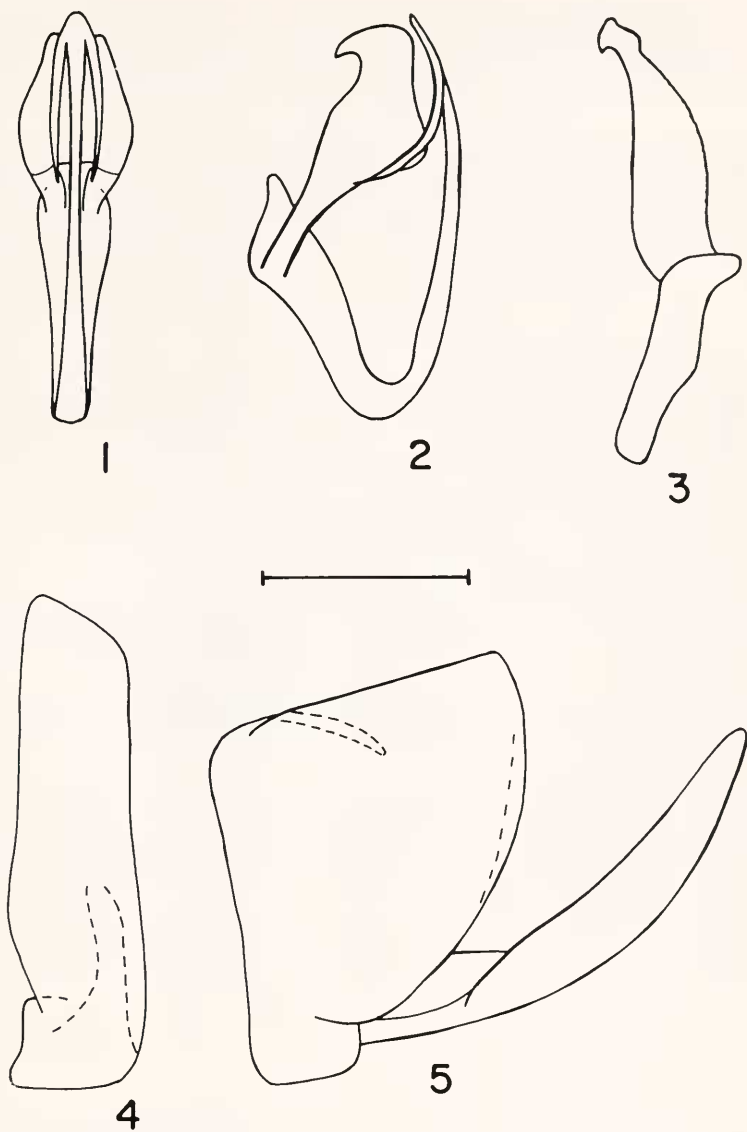
Female genitalia: Seventh sternum produced medially with very small median emargination.

Holotype male: Paget Parish, Paget Marsh, 14-22 VII 1988, M. R. Wilson & D. J. Hilburn, in the British Museum. Paratypes: one female, same data as holotype, in the British Museum; one male; same data as holotype, in the University of Kentucky Collection; one male, Devonshire Parish, Devonshire Marsh, 14-22 VII 1988, M. R. Wilson & D. J. Hilburn, in the Bermuda Collection; one male St. George's Parish, 4 VI 1987, D. J. Hilburn, Ferry Reach on G. Beating; one female, St. George's Parish, 16 II 1967, F. M. Collector, Non

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Figures 1-5. Male genital structures of *Curtara bermudensis* n. sp. 1, ventral view of aedeagus. 2, lateral view of aedeagus. 3, lateroventral view of style. 4, ventral view of plate. 5, lateral view of pygofer, plate and valve. All drawn to the same scale, which equals 0.5 mm.

Such Island, in grass. Bda. Dept. Agr. Coll. No. 323, both in the U.S. National Museum; one female, Non Such Island, 26 VIII 1966, F. M. Collector, collected on *Conocarpus erecta*, No. 323.; one female, Pembroke Parish, 22 IX 1966, F. M. Collector, Mount Hill, at light, No. 323; one male, Sandy's Parish, 19 IX 1987, D. Hilburn. General Beating; one male, Smith's Parish, 6 IX 1987, D. Hilburn, Spittal Pond, Sweeping, all in the Bermuda Collection.

Notes: This species is closely related to *samera* DeLong and Freytag but differs from it by having the males smaller, much darker in color and the aedeagus with longer processes which curve dorsally. Also, it resembles *compacta* DeLong but differs from this species by being larger and the male style being more robust near the middle.

LITERATURE CITED

- DeLong, D. M. 1977. Four new species of British Guiana and Brazil *Curtara* (Homoptera: Cicadellidae). J. Kansas Entomol. Soc. 50(1): 23-26.
- DeLong, D. M. 1979. Species of Gyponinae (Homoptera: Cicadellidae) described by Spångberg. Brenesia 16: 159-168.
- DeLong, D. M. 1980. New species of *Curtara* (Homoptera: Cicadellidae) from Central and South America. Brenesia 17:179-214.
- DeLong, D. M. 1983. New species *Curtara* (Homoptera: Cicadellidae) from Central and South America. Proc. Entomol. Soc. Wash. 85(3):601-606.
- DeLong, D. M. & Foster, D. R. 1982. New Species of Bolivian Gyponinae (Homoptera: Cicadellidae). Entomol. News 93(4):114-118.
- DeLong, D. M. & Freytag, P. H. 1972. Studies of the Gyponinae: A key to the known genera and descriptions of five new genera. J. Kansas Entomol. Soc. 45(2): 218-235.
- DeLong, D. M. & Freytag, P. H. 1976. Studies of the world Gyponinae (Homoptera: Cicadellidae): A synopsis of the Genus *Curtara*. Brenesia 7: 1-97.
- DeLong, D. M. & Triplehorn, B. W. 1978. Four new species of Gyponinae (Homoptera: Cicadellidae) from Paraguay. Entomol. News 89(7 & 8): 179-182.
- DeLong, D. M. & Triplehorn, B. W. 1979. New species of Gyponinae (Homoptera: Cicadellidae) from Peru. Brenesia 16: 175-188.
- DeLong, D. M. & Wolda, H. 1978. New species of *Polana* and *Curtara* (Gyponinae) (Homoptera: Cicadellidae) from Panama. Entomol. News 89 (9 & 10): 227-230.
- DeLong, D. M. & Wolda, H. 1982. New species of *Curtara*, *Polana* and *Acuera* (Homoptera: Cicadellidae: Gyponinae) from Panama, Peru, Bolivia and Venezuela. Entomologia Scandinavica 13(3): 301-311.
- DeLong, D. M. & Wolda, H. 1984. New Panamanian gyponine leafhoppers (Homoptera: Cicadellidae) belonging to the Genera *Polana* and *Curtara*. Uttar Pradesh J. Zool. 4 (1) 22-30.